

FIG. 1 PRIOR ART

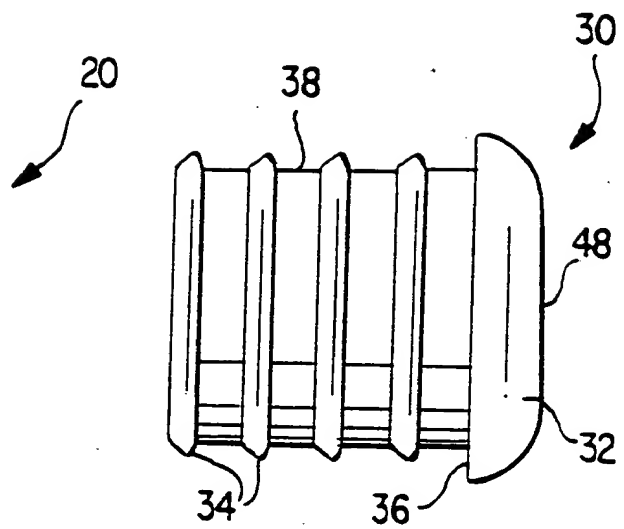


FIG. 2

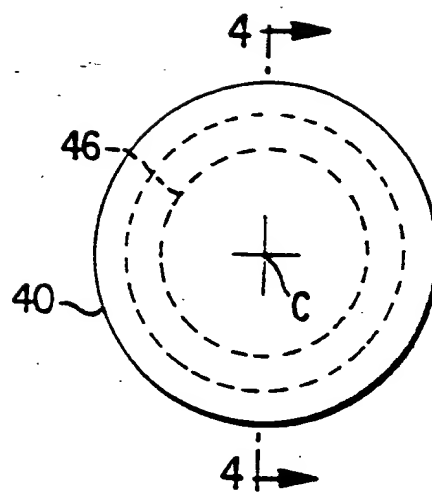


FIG. 3

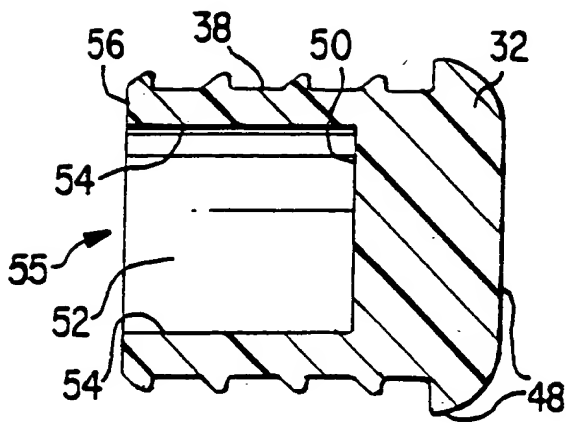


FIG. 4A

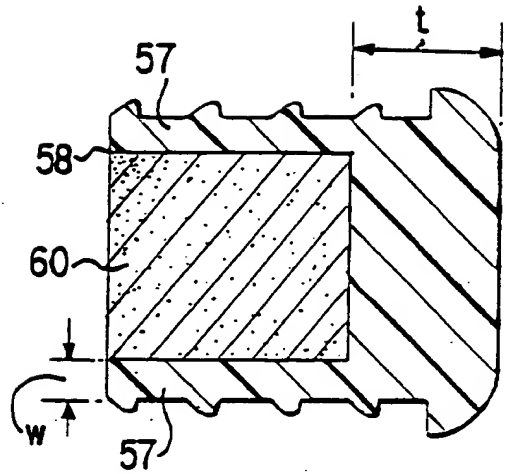


FIG. 4B

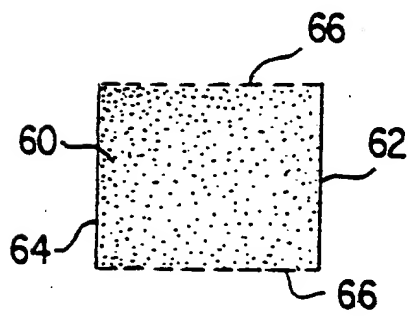


FIG. 5

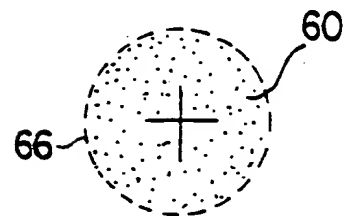


FIG. 6

FIG. 7

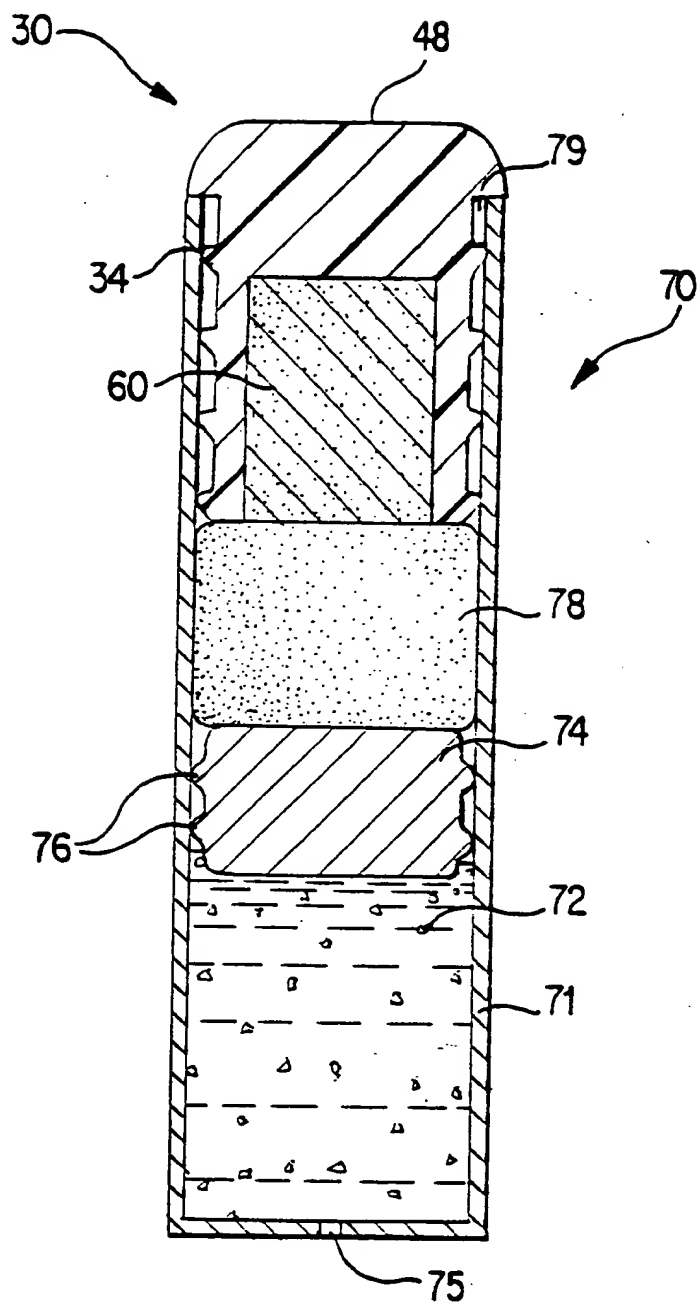


FIG. 7

FOOT 50" 2465860

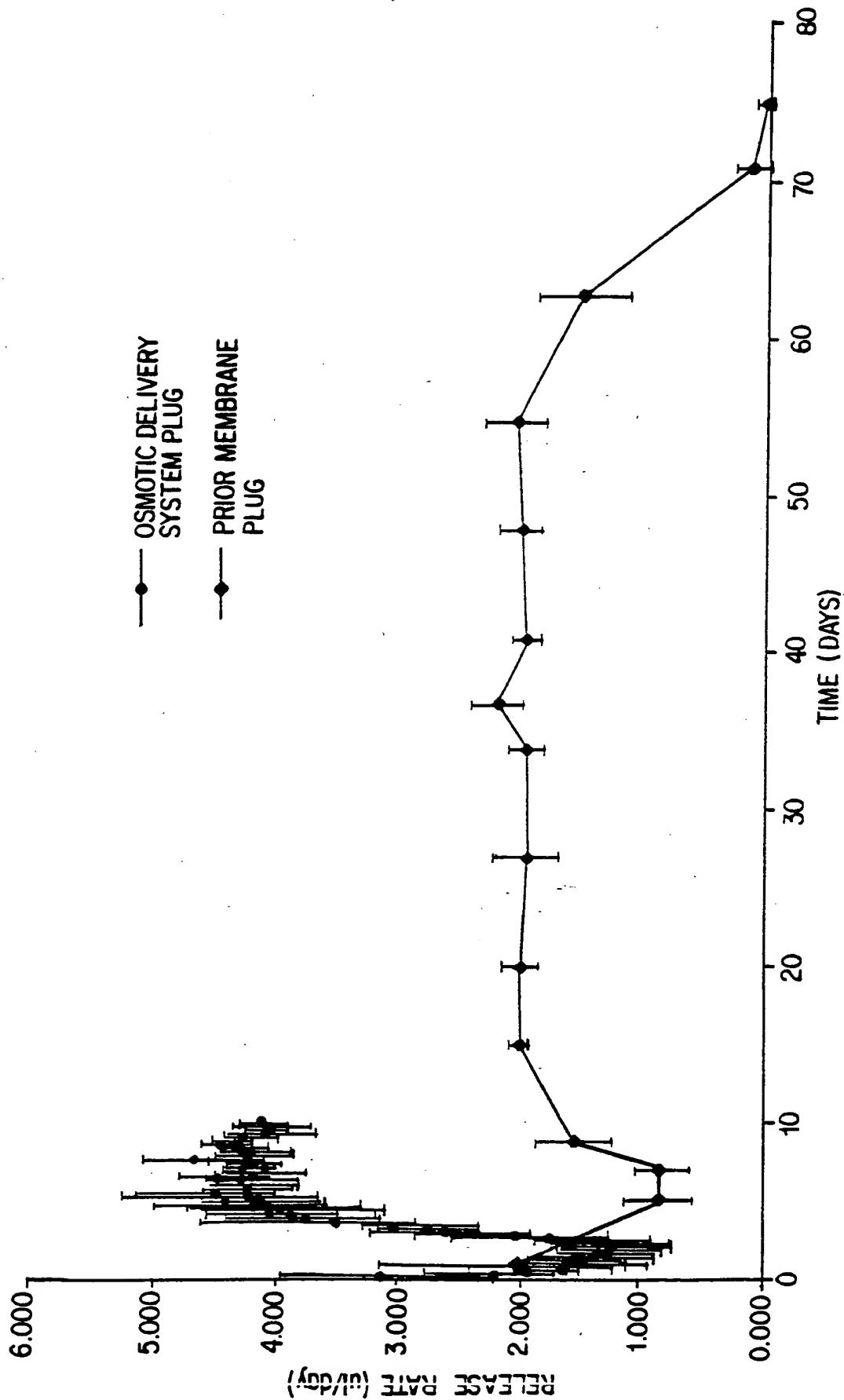


FIG. 8

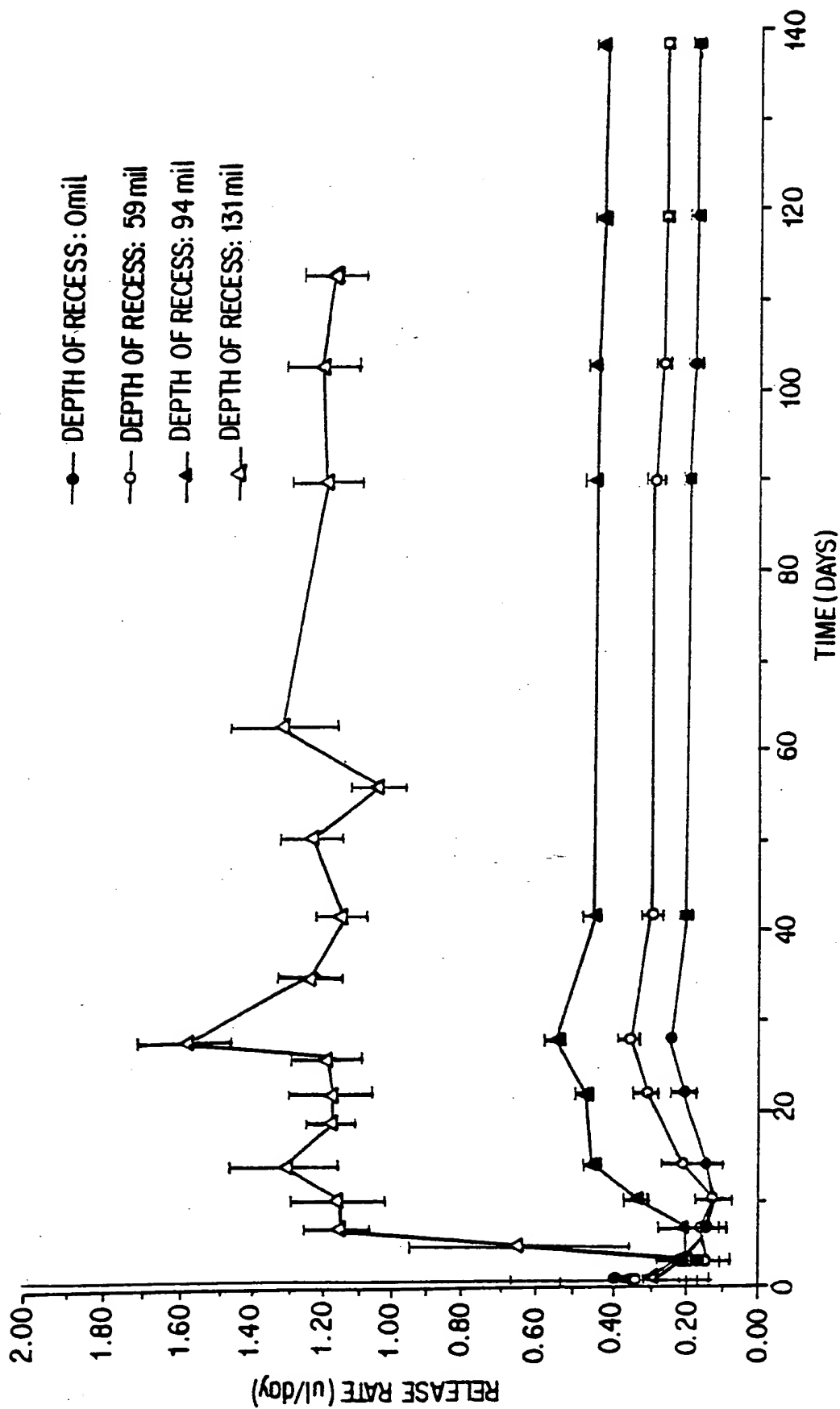


FIG. 9

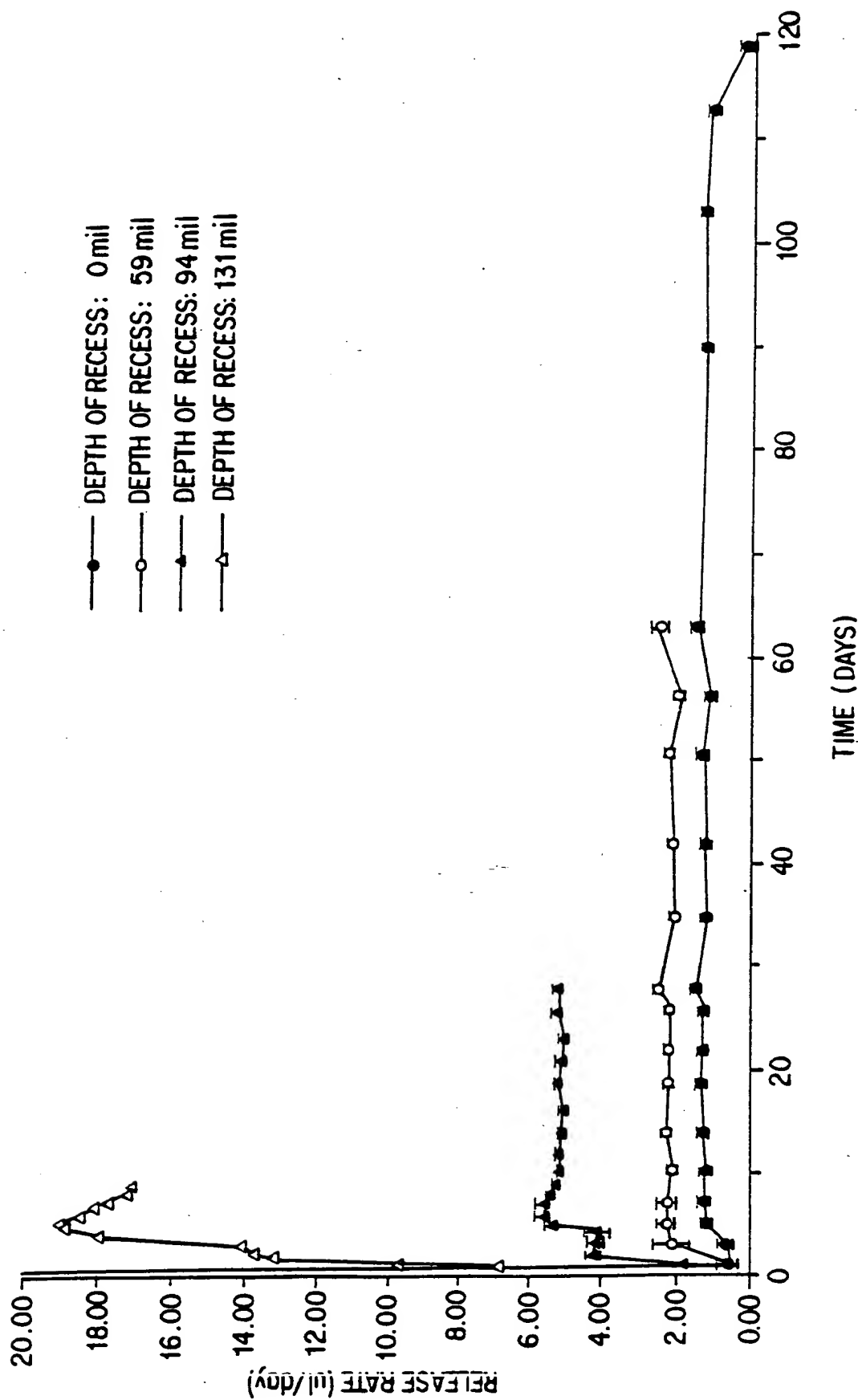
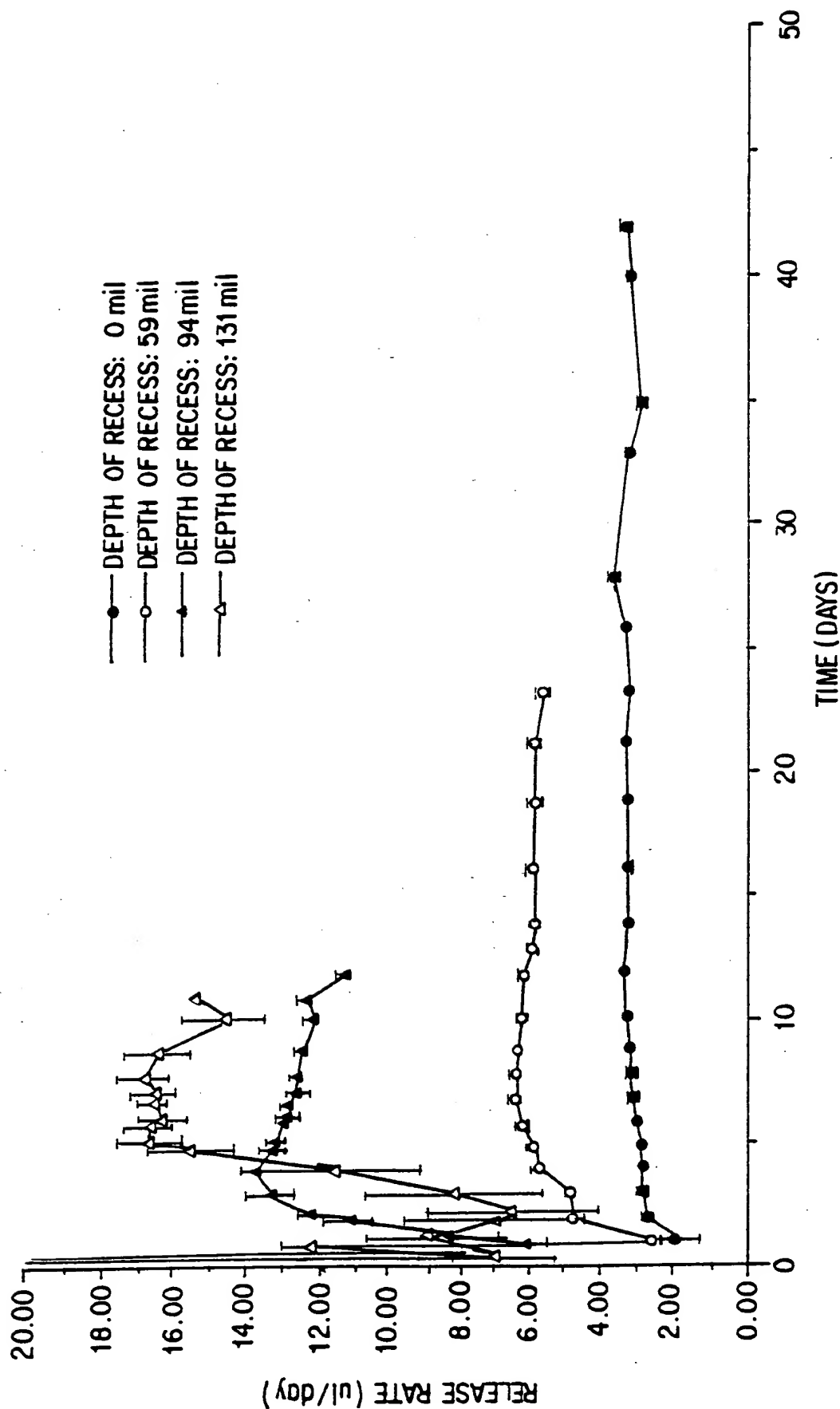


FIG. 10

—●— DEPTH OF RECESS: 0 mil  
—○— DEPTH OF RECESS: 59 mil  
—●— DEPTH OF RECESS: 94 mil  
—△— DEPTH OF RECESS: 131 mil



**FIG. 11**

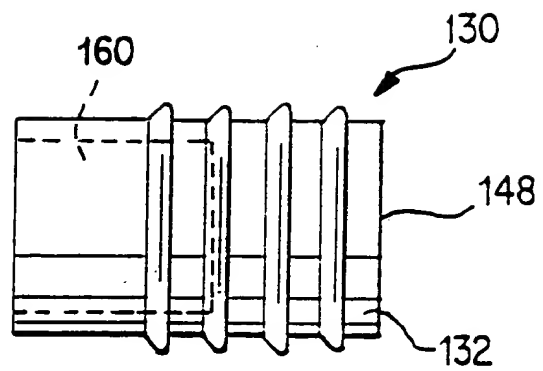


FIG. 12

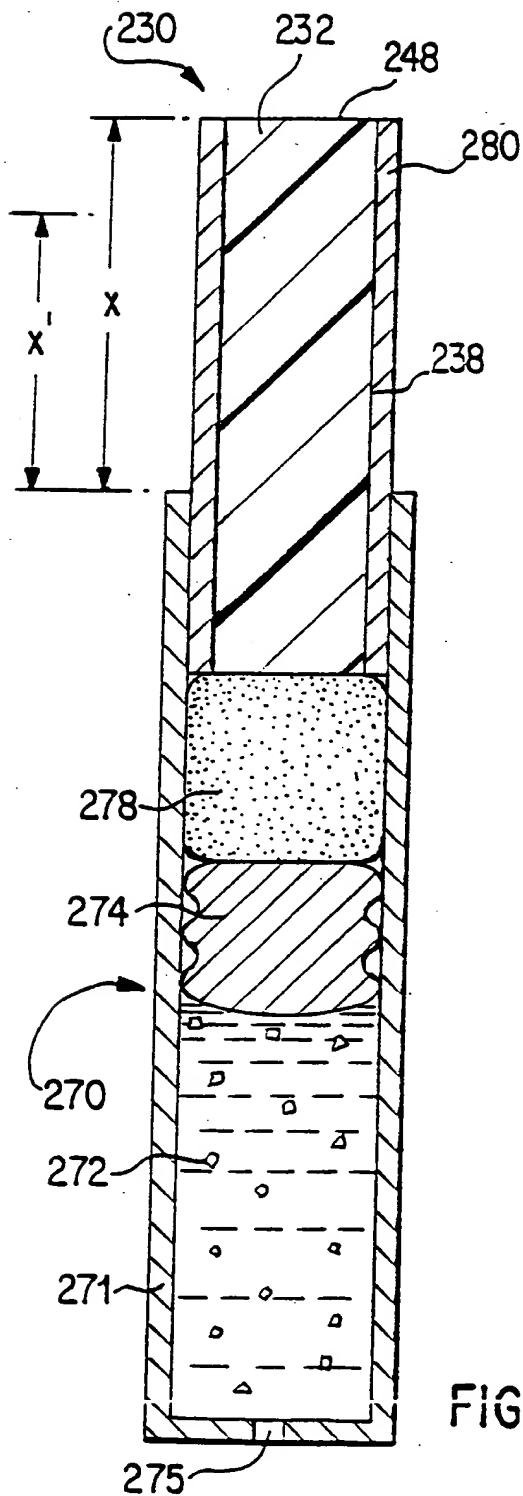


FIG. 13

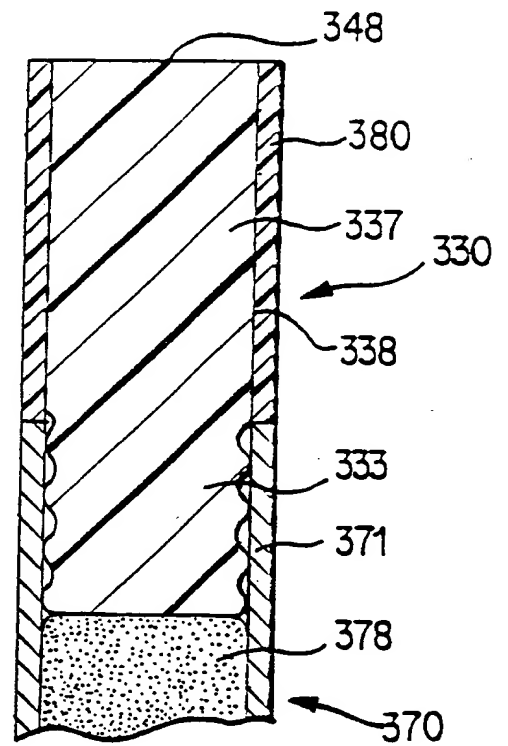


FIG. 14

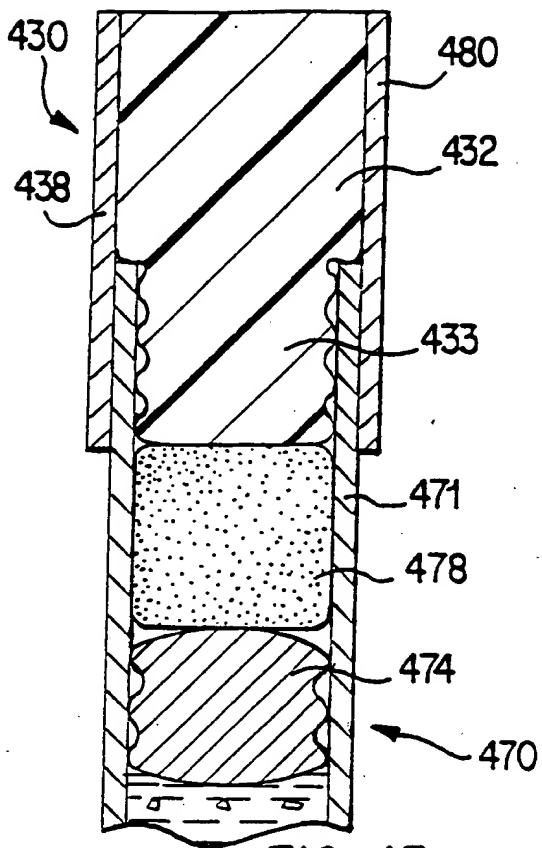


FIG. 15

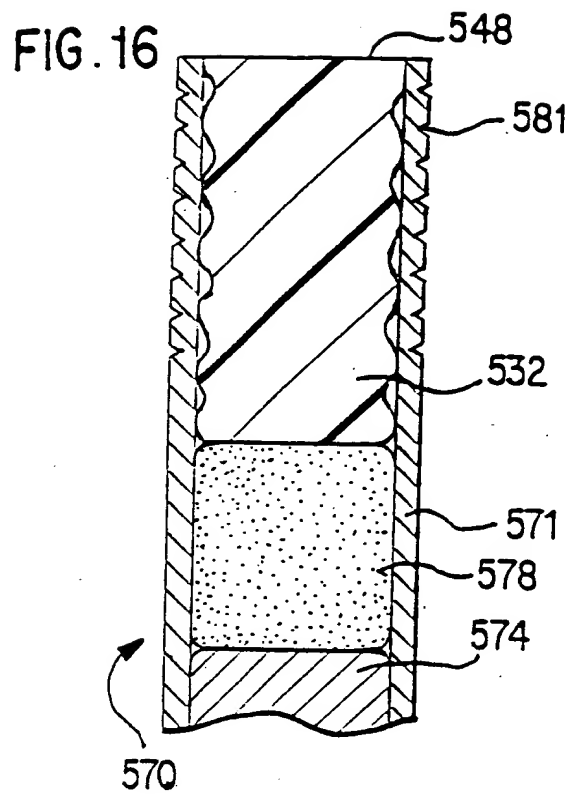


FIG. 16

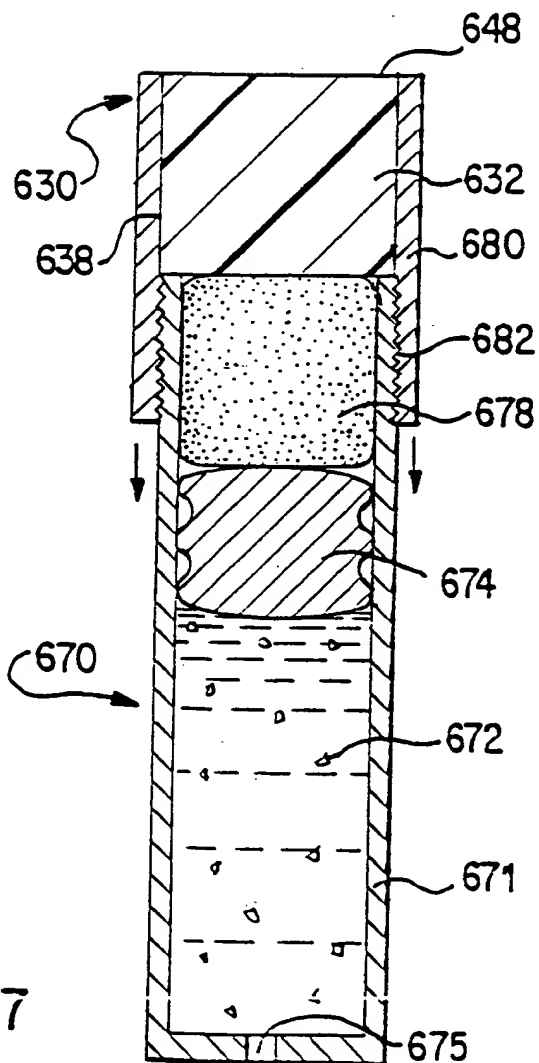


FIG. 17

FIG. 18

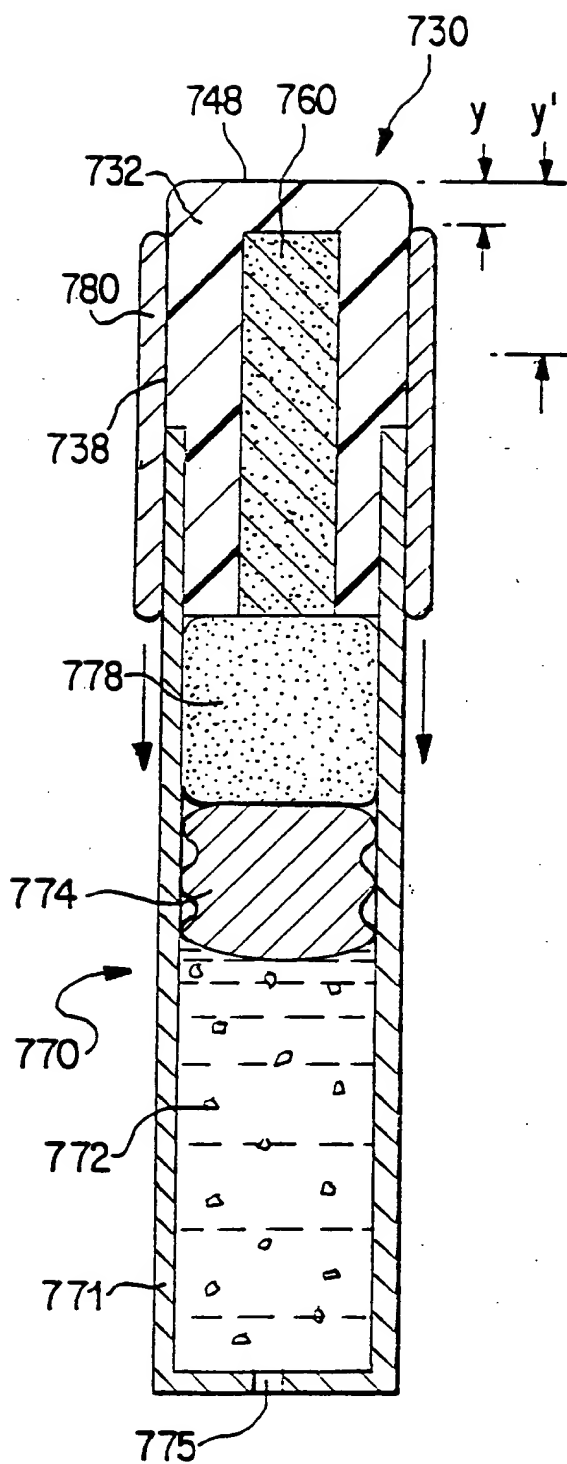


FIG. 18

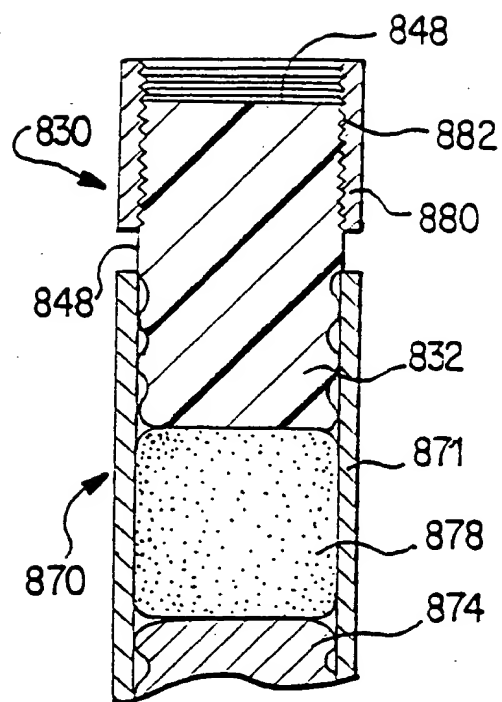


FIG. 19

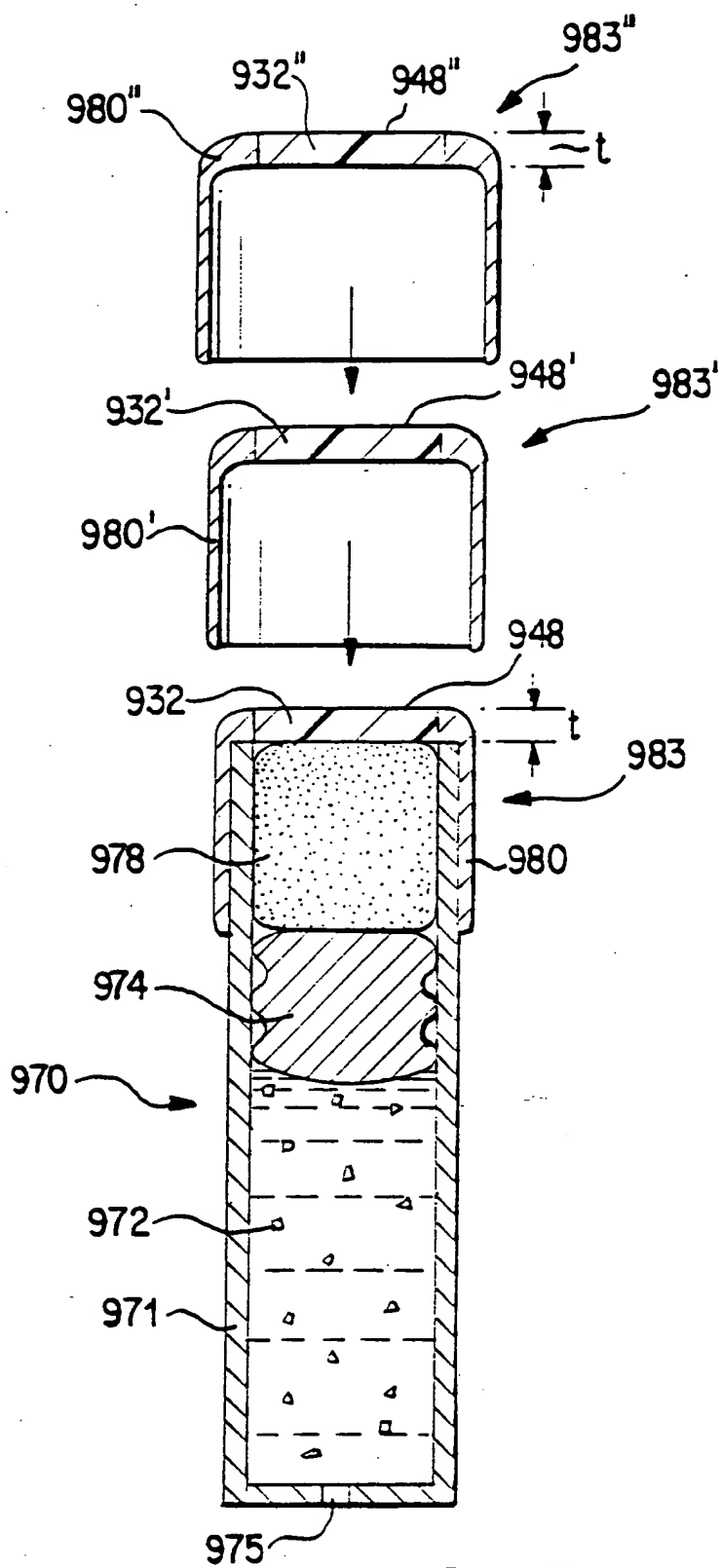


FIG. 20

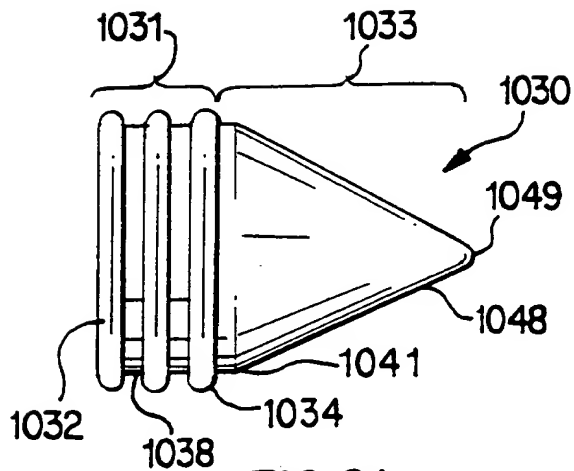


FIG. 21

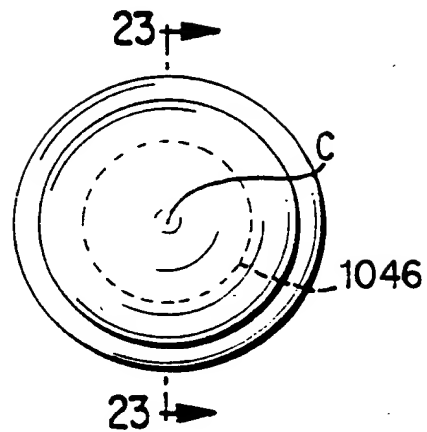


FIG. 22

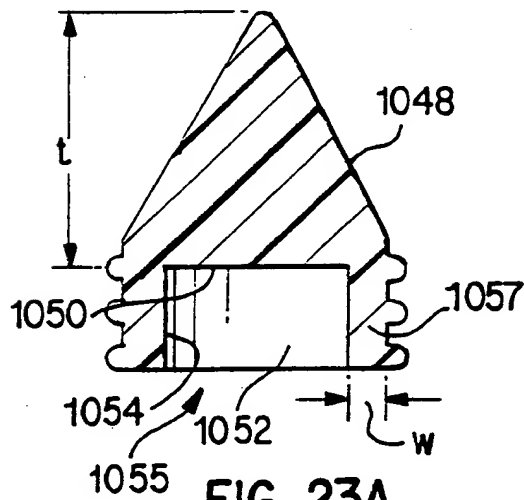


FIG. 23A

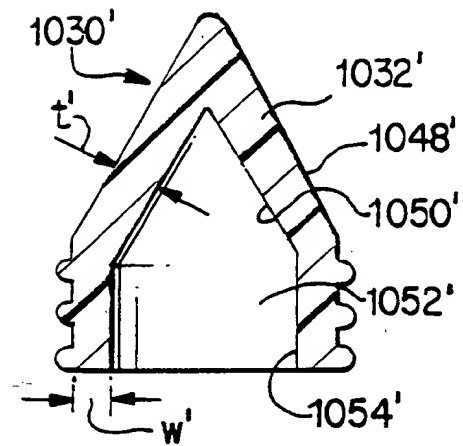


FIG. 23B

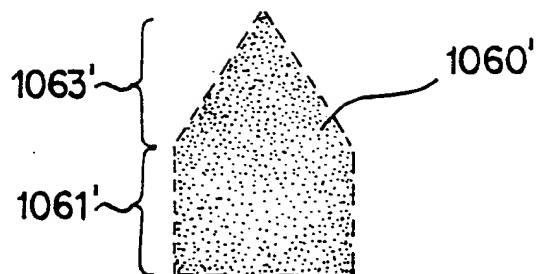


FIG. 24

FIG. 21

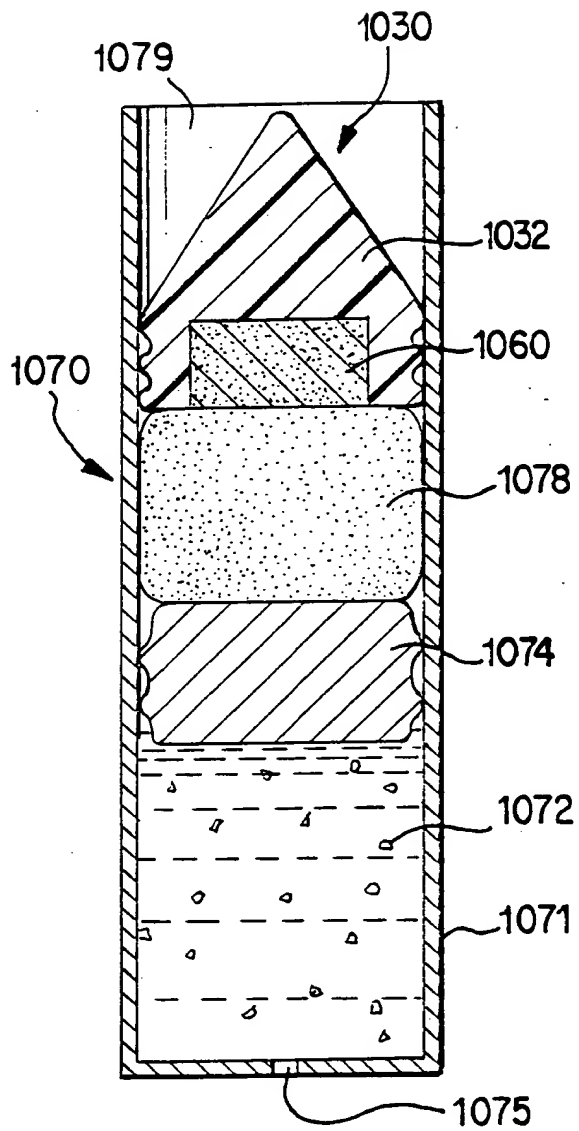


FIG. 25

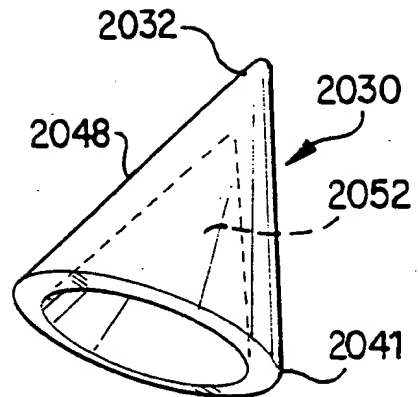


FIG. 26

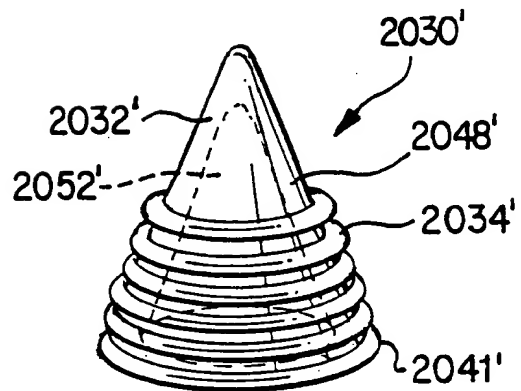


FIG. 27

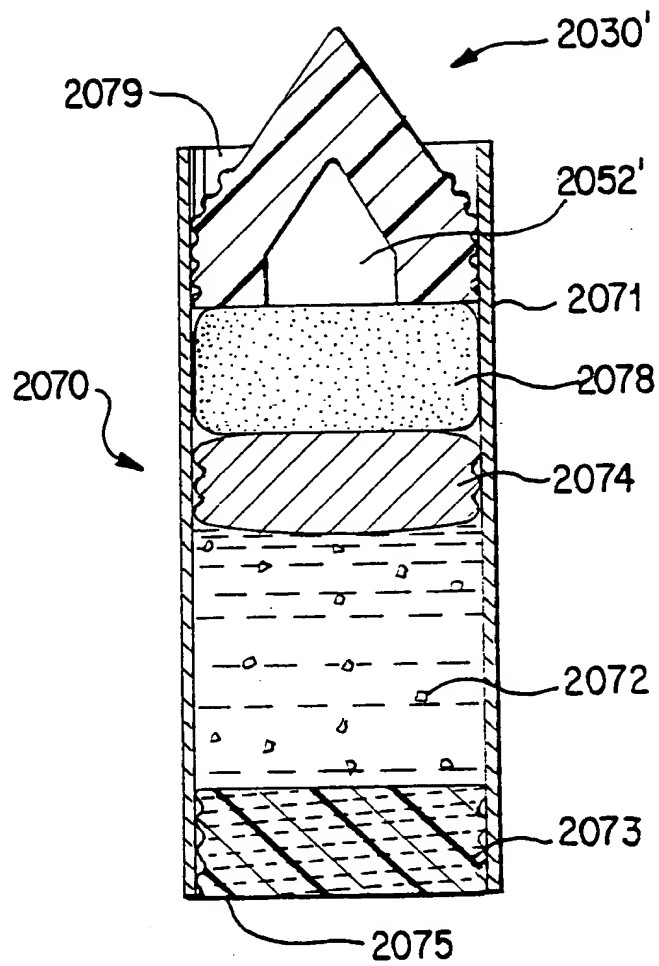


FIG. 28

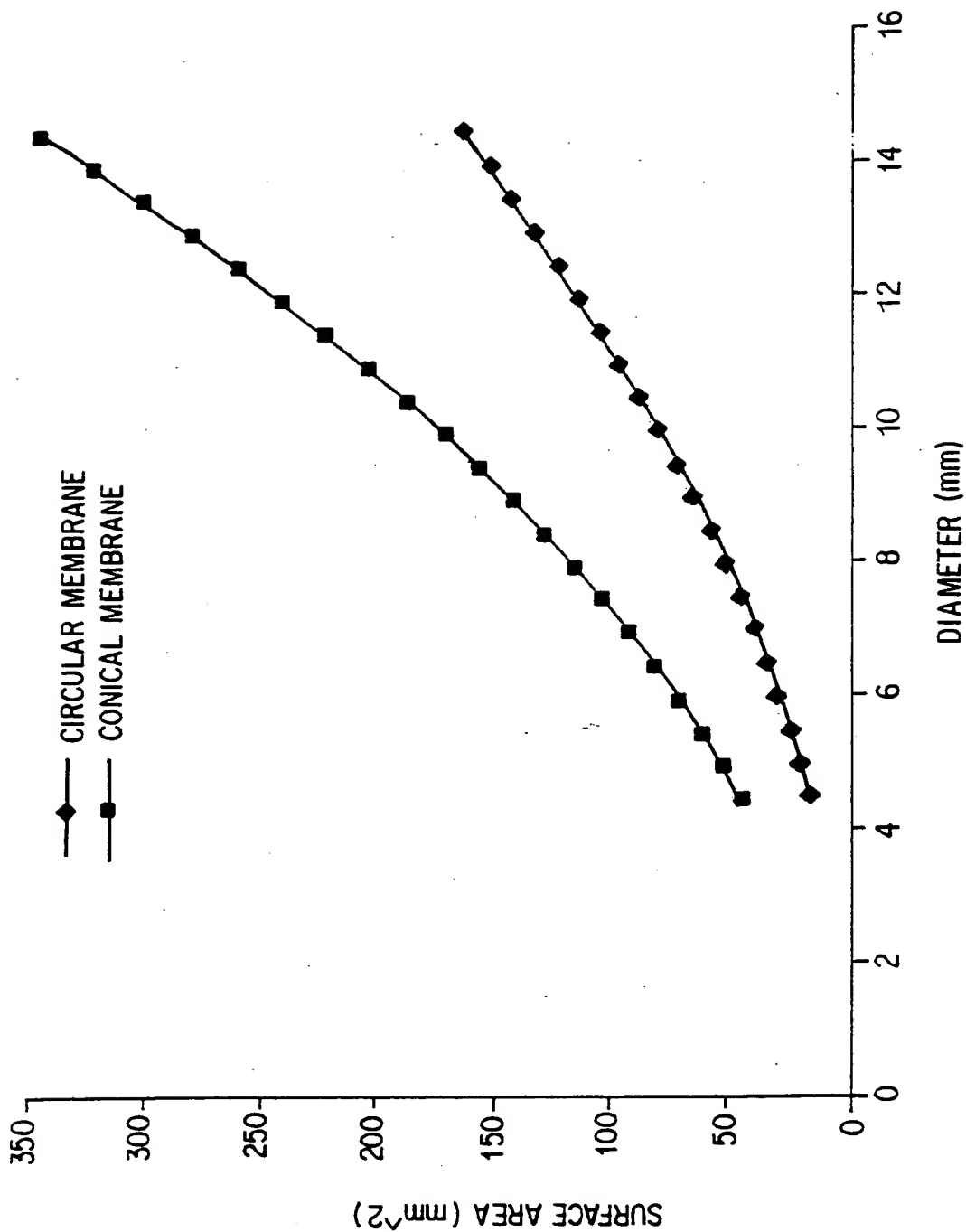


FIG. 29

The graph plots flow rate in  $\mu\text{l/hr}$  on the y-axis against diameter in mm on the x-axis. Two data series are shown: 'CONVENTIONAL MEMBRANE' (represented by diamonds) and 'CONICAL MEMBRANE' (represented by squares). Both series show a positive linear relationship, with the conical membrane consistently having a higher flow rate for any given diameter.

Diameter (mm)	Conventional Membrane Flow Rate ( $\mu\text{l/hr}$ )	Conical Membrane Flow Rate ( $\mu\text{l/hr}$ )
4.5	~5	~10
5.0	~10	~15
5.5	~15	~20
6.0	~20	~25
6.5	~25	~30
7.0	~30	~35
7.5	~35	~40
8.0	~40	~45
8.5	~45	~50
9.0	~50	~55
9.5	~55	~60
10.0	~60	~65
10.5	~65	~70
11.0	~70	~75
11.5	~75	~80
12.0	~80	~85
12.5	~85	~90
13.0	~90	~95
13.5	~95	~100

DIAMETER (mm)